

SEQUENCE LISTING

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AL INFORMATION:

(i) APPLICANTS: Yuan Min Wu and Eileen Xiao-Feng Nie

(ii) TITLE OF THE INVENTION: SOLUTION HYBRIDIZATION OF NUCLEIC ACIDS WITH ANTISENSE

PROBES HAVING MODIFIED BACKBONES

- (iii) NUMBER OF SEQUENCES: 12
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Caesar, Rivise, Bernstein, Cohen & Pokotilow, Ltd.
 - (B) STREET: 12th Floor, 7 Penn Center, 1635 Market Street
 - (C) CITY: Philadelphia
 - (D) STATE: Pennsylvania
 - (E) COUNTRY: U.S.A.
 - (F) ZIP: 19103-2212
- 15 (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA: 20
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Tener, David M.
 - (B) REGISTRATION NUMBER: 37,054
 - (C) REFERENCE/DOCKET NUMBER: E1047/20006
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 215-567-2010
 - (B) TELEFAX: 215-751-1142
- 30 (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 bases
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: double-stranded
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 - CTTCGAGATG TTCCGAGAGC TGAATGAGGC CTTGGAACTC 40
 - (2) INFORMATION FOR SEQ ID NO:2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 bases
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: double-stranded

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	(D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
	CTTCGAGATG TTCCGAGAGC AGAATGAGGC CTTGGAACTC 40
	(2) INFORMATION FOR SEQ ID NO:3:
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
	CTTCGAGATG TTCCGAGAGG AGAATGAGGC CTTGGAACTC 40
	(2) INFORMATION FOR SEQ ID NO:4:
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
	CTTCGAGATG TTCCGAGAGT ACAATGAGGC CTTGGAACTC 40
20	(2) INFORMATION FOR SEQ ID NO:5:
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG 40
	(2) INFORMATION FOR SEQ ID NO:6:
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	(ii) MOLECULE TYPE: genomic DNA
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA TTTCACCCTT 6
	E104720006-APP-V2 42

	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGC TGAATGAGGC CTTGGAACTC 120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG 150
	(2) INFORMATION FOR SEQ ID NO:7:
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
10	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA TTTCACCCTT 60
	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGC AGAATGAGGC CTTGGAACTC 120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG 150
	(2) INFORMATION FOR SEQ ID NO:8:
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
20	AACACCAGCT CCTCTCCCCA GCCAAAGAAG AAACCACTGG ATGGAGAATA TTTCACCCTT 60
	CAGATCCGTG GGCGTGAGCG CTTCGAGATG TTCCGAGAGA AGAATGAGGC CTTGGAACTC 120
	AAGGATGCCC AGGCTGGGAA GGAGCCAGGG 150
	(2) INFORMATION FOR SEQ ID NO:9:
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 bases (B) TYPE: nucleotide (C) STRANDEDNESS: double-stranded (D) TOPOLOGY: linear
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
	GCCAACTGGC CAAGACCTGC CCTGTGCAGC TGTGGGTTGA TTCCACACCC CCGCCCGGCA 6
	CCCGCGTCCG CGCCATGGCC ATCTACAAGC AGTCACAGCA CATGACGGAG GTTGTGAGGC 12
	(2) INFORMATION FOR SEQ ID NO:10:

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- (B) TYPE: nucleotide with four methylphosphonate substitutions along its backbone
- (C) STRANDEDNESS: single-stranded
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CCTCATTCAG CTCTCGGA 18

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- (2) INFORMATION FOR SEQ ID NO:11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 bases
 - (B) TYPE: nucleotide with nine methylphosphonate substitutions along its backbone
 - (C) STRANDEDNESS: single-stranded
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

CCTCATTCAG CTCTCGGA 18

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 bases
 - (B) TYPE: nucleotide with 15 methylphosphonate substitutions along its backbone
 - (C) STRANDEDNESS: single-stranded
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

CTCATTCAGC TCTCG 15

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